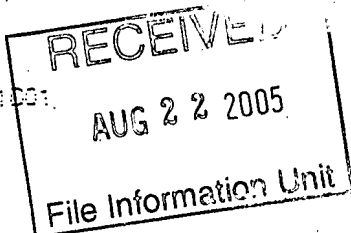


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In re Application of \_\_\_\_\_

Application Number

08-332046

Filed

Nov 1, 1994

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#61

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United States Patent Application Publication No. \_\_\_\_\_, page \_\_\_\_\_, line \_\_\_\_\_

United States Patent Number 6545142, column \_\_\_\_\_, line \_\_\_\_\_, or

WIPO Pub. No. \_\_\_\_\_, page \_\_\_\_\_, line \_\_\_\_\_

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703-413-3667

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US006545142B1

**(12) United States Patent**  
**Winter et al.****(10) Patent No.: US 6,545,142 B1**  
**(45) Date of Patent: Apr. 8, 2003****(54) SINGLE DOMAIN LIGANDS, RECEPTORS  
COMPRISING SAID LIGANDS, METHODS  
FOR THEIR PRODUCTION, AND USE OF  
SAID LIGANDS AND RECEPTORS****(75) Inventors:** Gregory Paul Winter, Cambridge  
(GB); Elizabeth Sally Ward,  
Cambridge (GB); Detlef Güssow,  
Cambridge (GB)**(73) Assignee:** Medical Research Council of the  
United Kingdom, London (GB)**(\*) Notice:** Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 0 days.**(21) Appl. No.: 09/722,364****(22) Filed: Nov. 28, 2000****Related U.S. Application Data****(60)** Continuation of application No. 08/470,031, filed on Jun. 6,  
1995, now Pat. No. 6,248,516, which is a division of  
application No. 08/332,046, filed on Nov. 1, 1994, now  
abandoned, which is a continuation of application No.  
07/796,805, filed on Nov. 25, 1991, now abandoned, which  
is a division of application No. 07/580,374, filed on Sep. 11,  
1990, now abandoned.**(30) Foreign Application Priority Data**

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Mar. 16, 1989	(GB)	8906034
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**(51) Int. Cl.<sup>7</sup> C07H 21/04****(52) U.S. Cl. 536/24.33; 536/23.53****(58) Field of Search 536/24.33, 23.53****(56) References Cited****U.S. PATENT DOCUMENTS**

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*Primary Examiner*—James Ketter*(74) Attorney, Agent, or Firm*—Nixon & Vanderhye P.C.**(57) ABSTRACT**

The present invention relates to single domain ligands derived from molecules in the immunoglobulin (Ig) superfamily, receptors comprising at least one such ligand, methods for cloning, amplifying and expressing DNA sequences encoding such ligands, preferably using the polymerase chain reaction, methods for the use of said DNA sequences in the production of Ig-type molecules and said ligands or receptors, and the use of said ligands or receptors in therapy, diagnosis or catalysis.

**2 Claims, 23 Drawing Sheets**